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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,693	10/03/2003	William J. Murphy	JJK-0329 (P2002J099)	9950
27810	7590	11/17/2004		
EXXONMOBIL RESEARCH AND ENGINEERING COMPANY P.O. BOX 900 1545 ROUTE 22 EAST ANNANDALE, NJ 08801-0900			EXAMINER NGUYEN, TAM M	
			ART UNIT 1764	PAPER NUMBER

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/678,693	MURPHY ET AL.
	Examiner Tam M. Nguyen	Art Unit 1764

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(h).

## Status

1)  Responsive to communication(s) filed on 03 October 2003.

2a)  This action is **FINAL**.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-37 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-37 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 03 October 2003 is/are: a)  accepted or b)  objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a))

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 7/16/03, 6/01/03.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5)  Notice of Informal Patent Application (PTO-152)  
6)  Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 15-19, and 32-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Baker et al. (5,951,848).

Baker discloses a process for catalytic drewaxing a feedstock. The feedstock, which comprises about less than 5,000 ppm of sulfur compounds and about 50 ppm of nitrogen compounds, is first passed into a hydrotreating zone to remove nitrogen and sulfur compounds. The hydrogenating zone is operated at a temperature of from 300 to 450° C, at a pressure of from 6900 to 20700 kPa, at a LHSV of from 0.1 to 10 hr<sup>-1</sup>, and at a hydrogen rate of from 200 to 800 SCF/Bbl (900 to 1800 m<sup>3</sup>/m<sup>3</sup>). The effluent from the hydrotreating zone is entirely passed into a dewaxing zone containing a dewaxing catalyst including ZSM-48, a metal hydrogenation component (e.g., Pt or Pd). The dewaxing zone is operated at conditions similar to the hydrotreating zone. The product from the dewaxing zone is further treated in a hydrofinishing zone. (See col. 1, lines 9-20; col. 2, line 46 through col. 3, line 3; col. 4, line 14 through col. 5, line 29; col. 8, line 1 through col. 10, line 47)

Claims 20-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Xiao et al. (6,264,826).

Xiao discloses a process for preparing lubricating base oils from a sulfur containing feedstock. The feedstock is derived from a solvent extracting process wherein foot oils is prepared by separating oil from the wax. The foot oils, which comprises about 0.5 to 2.5 wt.% (5000 to 25,000 ppm) of sulfur compounds and about 50 to 2000 ppm of nitrogen compounds, is fed into a hydrotreating zone wherein nitrogen and sulfur compounds are removed. The hydrotreating is operated at a temperature of from 260 to 427° C, at a pressure of from less than 11 Mpa, at LHSV of about 0.5, and at hydrogen rate of about 722 m<sup>3</sup>/m<sup>3</sup>. The entire effluent from the hydrotreating zone is then fed into a dewaxing zone containing a dewaxing catalyst including ZSM-5 and SAPO-11, a metal hydrogenation component (e.g., Pt or Pd). The dewaxing process is operated at temperature of from 400 to 900° F, at a pressure of from .45 to 20.8 Mpa, at LHSV of from about 0.1 to 5 hr<sup>-1</sup>, and at hydrogen gas rates of from 89.1 to 1780 m<sup>3</sup>/m<sup>3</sup>. The product from the dewaxing zone is then passed into a hydrofinishing zone to provide a final product. (See col. 2, line 51 through col. 6, line 59; col. 8, line 53 through col. 10, line 40)

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7-14 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baker et al. (5,951,848) in view of either Lucien et al. (4,906,350) or Cody et al. (5,935,417)

Baker does not specifically disclose that the dewaxing zone comprises a second catalyst.

Both Lucien and Cody teach that ZSM-5 and/or ZSM-48 can be utilized in a dewaxing process. (See Lucien, claim 2; Cody; col. 7, lines 10-16)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Baker by using a second catalyst such as ZSM-5 because both Lucien and Cody teaches that ZSM-5 and ZSM-48 have equivalent function in a dewaxing process. It would reasonably expect that the results would be the same or similar when using the individual catalyst or combination of both in the process of Baker.

Claims 25 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Xiao et al. (6,264,826) in view of either Lucien et al. (4,906,350) or Cody et al. (5,935,417)

Xiao does not disclose the dewaxing catalyst is ZSM-48.

Both Lucien and Cody teach that a ZSM-5 and/or ZSM-48 can be utilized in a dewaxing process. (See Lucien, claim 2; Cody; col. 7, lines 10-16)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Baker by using ZSM-48 as taught by Lucien and Cody because ZSM-48 have an equivalent function as ZSM-5 in a dewaxing process. It would reasonably expect that the results would be the same or similar when using ZSM-48 in the process of Xiao.

Claim 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Xiao et al. (6,264,826) in view of Cody et al. (5,935,417).

Xiao does not specifically disclose a step of blending a raffinate feedstock and at least one of a slack wax or foots oil.

Cody discloses a step of blending a raffinate feedstock with foots oil to form a blended feedstock. (See col. 5, lines 9-15)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Xiao by using the blend feedstock of Cody because any waxy feedstock can be used in the process of Xiao. Therefore, it would be expected that the blend feedstock would be successfully treated in the process of Xiao.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tam M. Nguyen whose telephone number is (571) 272-1452. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Calderola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tam M. Nguyen  
Examiner  
Art Unit 1764

TN

Tam  
11/10/04